Access DB# 122943

SEARCH REQUEST FORM

Scientific and Technical Information Center

58

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D water's Full Name: 120	une Bost	Examiner #: 6895 Date: 524 04 Serial Number: 10 7 8 5 0 8 referred (circle): PAPER DISK E-MAIL				
Requester's run Hanne. Phone N	Tumber 30	Serial Number: 10 718 508				
Art Unit: 2600 2 YAST	Results Format Pr	referred (circle): PAPER DISK E-MAIL				
and coarch is subm	itted, please priori	tize searches in order of need.				
If more than one search is submitted, please prioritize searches in order of need.						
by a detailed statement of the	search topic, and describ	be as specifically as possible the subject matter to be searched. Only ms. and registry numbers, and combine with the concept of				
Include the elected species or structures, k	cywords, synonyms, acr	conyms, and registry numbers, and combine with the concept of meaning. Give examples or relevant citations, authors, etc, if				
utility of the invention. Define any terms known. Please attach a copy of the cover s	heet, pertinent claims, at	W Brongor				
Title of Invention:						
Inventors (please provide full names):						
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Earliest Priority Filing Date:						
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Query/Command: prt max legalall

1/1 PLUSPAT - @QUESTEL-ORBIT - image

PN - 🔯 US6320971 B1 20011120 [US6320971]

TI - (B1) Speaker system and a method for improving sound quality thereof

IN - (B1) TOZAWA KATSUTOSHI (JP)

AP - US84268297 19970415 [1997US-0842682]

FD - Cont. of US373250 (Abandoned)

PR - JP23754592 19920723 [1992JP-0237545]

IC - (B1) H04R-001/02 H04R-001/20

EC - G10K-011/172 G10K-011/178 H04R-001/34

PCL - ORIGINAL (O): 381386000; CROSS-REFERENCE (X): 181151000 181155000 181198000 381348000 381352000 381353000

DT - Basic (replaces original non EP official language basic.)

CT - US1975201; US3327808; US3684051; US3978941; US4398619; US4750585; DE3927178 A; GB659818 A; JP0186191
The Radio Technology, article from the magazine for audiophile, Dec. 1, 1994.

Supplementary European Search Report in the European Patent Application No. 93900401.6 corresponding to the present application, including copies of the first pages of the references cited in the report.

Reference 1 Remarks about GA-A-659818.

Reference 2 (Referential material regarding technical matters such as "voice coil impedance").

Official Communication dated Oct. 5, 1999 from the EPO.

STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

AB - A speaker system suppresses standing waves generated in the system and reproduces clear and dynamic bass sound. The system includes a cabinet formed of acoustic isolation walls, and at least one partition wall situated inside the cabinet to form a space by surrounding the space. The partition wall suppresses the standing waves generated inside the cabinet and is formed of a material having high internal loss. The space has a total capacity more than one tenth of a capacity of the cabinet, wherein a closed end of the partition wall is located between one-half and four-fifths of a distance from one end to the other end, and an opening area of the same partition wall is located at a side opposite to the closed end in a longitudinal direction of the cabinet. The opening area is located between four-fifths and five fifths of a distance from one end to the other end.

UP - 2001-48

1/1 LGST - ©EPO

PN - 🖾 US6320971 B1 20011120 [US6320971]

AP - US84268297 19970415 [1997US-0842682]

ACT - 20040302 US/RF-A

REISSUE APPLICATION FILED EFFECTIVE DATE: 20031120

UP - 2004-11

1/1 CRXX - @CLAIMS/RRX

PN - 🔁 6,320,971 A 20011120 [US6320971]

PA - Tozawa, Katsutoshi JP

ACT - 20031120 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040302

REISSUE REQUEST NUMBER: 10/718508

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2644

Reissue Patent Number:

LEVEL 1 - 1 OF 1 PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

LEXIS-NEXIS

Library: PATENT

6320971

<=1> Get Drawing Sheet 1 of 9

November 20, 2001

Speaker system and a method for improving sound quality thereof

REISSUE: November 20, 2003 - Reissue Application filed Ex. Gp.: 2644; Re. S.N.

10/718,508 (O.G. March 2, 2004)

APPL-NO: 842682 (08)

FILED-DATE: April 15, 1997

GRANTED-DATE: November 20, 2001

CORE TERMS: cabinet, cardboard, partition, box, corrugated, tube, wave,

frequency, speaker unit, resonance ...

LEXIS-NEXIS
Library: PATENT
File: CASES

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

6,320,971 OR 630971

LEXIS-NEXIS
Library: PATENT
File: JNLS

Your search request has found no ITEMS.

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To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 OF 2 STORIES

Copyright 2003 The Press Enterprise Co. Press Enterprise (Riverside, CA)

January 23, 2003, Thursday

SECTION: LOCAL; Pg. B01

LENGTH: 380 words

HEADLINE: New middle school readied: FOR THE DEAF: A 24-classroom facility will

open on the Riverside campus in spring.

BYLINE: JACQUIE PAUL; THE PRESS-ENTERPRISE

LEXIS-NEXIS
Library: NEWS
File: CURNWS

LEVEL 1 - 2 OF 2 STORIES

Copyright 2002 Paddock Publications, Inc. Chicago Daily Herald

December 14, 2002, Saturday F3

SECTION: SPORTS; Pg. 8

LENGTH: 456 words

HEADLINE: Everything clicks for Kainz, Kaneland

BYLINE: Christine Bolin Daily Herald Sports Writer

LEXIS-NEXIS
Library: NEWS
File: CURNWS

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s pn=us 6320971
              1 PN=US 6320971
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5/39/1
DIALOG(R) File 345: Inpadoc/Fam. & Legal Stat
(c) 2004 EPO. All rts. reserv.
11597248
Basic Patent (No, Kind, Date): WO 9403025 A1 19940203
                                                      <No. of Patents: 009>
Patent Family:
                                 Applic No
    Patent No
                 Kind Date
                                             Kind Date
                       19951206
                                    CN 93105398
                                                   Α
                                                        19930603
    CN 1113066
                   Α
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                   В
                       20010110
                                    CN 93105398
                                                    Α
                                                        19930603
                                                        19921228
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                       20030918
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    DE 69233164
                                    DE 69233164
                   A1
                                   EP 93900401
    EP 669781
                       19950830
                                                   Α
                                                        19921228
                   Α4
                       19950523
                                   EP 93900401
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                                                        19921228
    EP 669781
    EP 669781
                   В1
                       20030813
                                   EP 93900401
                                                   Α
                                                        19921228
                   В1
                      19990601
                                   KR 9570137
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    KR 187565
                   BA 20011120
                                                        19970415
    US 6320971
                                   US 842682
                                                   Α
                   A1 19940203
                                   WO 92JP1721
                                                   Α
                                                        19921228
    WO 9403025
                                                                 (BASIC)
Priority Data (No, Kind, Date):
    CN 93105398 A 19930603
    CN 93103538 A 19930331
    JP 92237545 A 19920723
    WO 92JP1721 W 19921228
PATENT FAMILY:
CHINA (CN)
  Patent (No, Kind, Date): CN 1113066 A
                                          19951206
    LOUD-SPEAK SYSTEM (English)
    Patent Assignee: KATSUTOSHI TOZAWA (JP)
    Author (Inventor): TOZAWA KATSUTOSHI (JP)
    Priority (No, Kind, Date): CN 93105398 A 19930603; CN 93103538 A
      19930331; JP 92237545 A
                                19920723
    Applic (No, Kind, Date): CN 93105398 A
                                             19930603
    IPC: * H04R-001/28; H04R-001/02
    Derwent WPI Acc No: * G 94-049157
    Language of Document: Chinese
  Patent (No, Kind, Date): CN 1060608 B
                                          20010110
    BOX FOR LOUD-SPEAKER SYSTEM (English)
    Patent Assignee: KATSUTOSHI TOZAWA (JP)
    Author (Inventor): TOZAWA KATSUTOSHI (JP)
                                               19930603; CN 93103538 A
    Priority (No, Kind, Date): CN 93105398 A
      19930331; JP 92237545 A
                               19920723
    Applic (No, Kind, Date): CN 93105398 A
                                             19930603
    IPC: * H04R-001/28; H04R-001/02
    Derwent WPI Acc No: * G 94-049157
    Language of Document: Chinese
GERMANY (DE)
  Patent (No, Kind, Date): DE 69233164 CO 20030918
    LAUTSPRECHERSYSTEM (German)
    Patent Assignee: TOZAWA KATSUTOSHI (JP)
    Author (Inventor): TOZAWA KATSUTOSHI (JP)
    Priority (No, Kind, Date): JP 92237545 A
                                               19920723; WO 92JP1721 W
      19921228
    Applic (No, Kind, Date): DE 69233164 A
    IPC: * H04R-001/02; H04R-001/28; G10K-011/16
    Language of Document: German
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GERMANY (DE)
  Legal Status (No, Type, Date, Code, Text):
     DE 69233164
                    Ρ
                        20030918 DE REF
                                                 CORRESPONDS TO
                               (ENTSPRICHT)
                               EP 669781 P
                                              20030918
EUROPEAN PATENT OFFICE (EP)
  Patent (No, Kind, Date): EP 669781 Al 19950830
    SPEAKER SYSTEM. (English; French; German)
    Patent Assignee: TOZAWA KATSUTOSHI (JP)
    Author (Inventor): TOZAWA KATSUTOSHI (JP)
    Priority (No, Kind, Date): WO 92JP1721 W 19921228; JP 92237545 A
      19920723
    Applic (No, Kind, Date): EP 93900401 A
                                            19921228
    Designated States: (National) DE; GB
    IPC: * H04R-001/02; H04R-001/28; G10K-011/16
    Derwent WPI Acc No: * G 94-049157
    Language of Document: English
  Patent (No, Kind, Date): EP 669781 A4 19950523
    SPEAKER SYSTEM. (English; French; German)
    Patent Assignee: TOZAWA KATSUTOSHI (JP)
    Author (Inventor): TOZAWA KATSUTOSHI (JP)
Priority (No, Kind, Date): WO 92JP1721 W 19921228; JP 92237545 A
      19920723
    Applic (No, Kind, Date): EP 93900401 A 19921228
    Designated States: (National) DE; GB
    IPC: * H04R-001/02; H04R-001/28; G10K-011/16
    Derwent WPI Acc No: * G 94-049157
    Language of Document: English
  Patent (No, Kind, Date): EP 669781 B1 20030813
    SPEAKER SYSTEM (English; French; German)
    Patent Assignee: TOZAWA KATSUTOSHI (JP)
    Author (Inventor): TOZAWA KATSUTOSHI (JP) Priority (No, Kind, Date): WO 92JP1721 W
                                               19921228; JP 92237545 A
      19920723
    Applic (No, Kind, Date): EP 93900401 A
                                              19921228
    Designated States: (National) DE; GB
    IPC: * H04R-001/02; H04R-001/28; G10K-011/16
    Derwent WPI Acc No: * G 94-049157
    Language of Document: English
EUROPEAN PATENT OFFICE (EP)
  Legal Status (No, Type, Date, Code, Text):
     EP 669781
                         19920723 EP AA
                                                 PRIORITY (PATENT
                               APPLICATION) (PRIORITAET (PATENTANMELDUNG))
                               JP 92237545 A
                                                19920723
    EP 669781
                        19921228 EP AA
                                                PCT-APPLICATION
                               (PCT-ANMELDUNG)
                               WO 92JP1721 W
                                                19921228
    EP 669781
                        19921228
                                  EP AE
                                                EP-APPLICATION
                               (EUROPAEISCHE ANMELDUNG)
                               EP 93900401 A
                                                19921228
    EP 669781
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                        19950523 EP AK
                                                DESIGNATED CONTRACTING
                               STATES MENTIONED IN A SUPPLEMENTARY SEARCH
                               REPORT: (IN EINEM ERGAENZENDEN
                               RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
                               DE GB
    EP 669781
                    Ρ
                        19950523 EP A4
                                                SUPPLEMENTARY SEARCH REPORT
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(ERGAENZENDER RECHERCHENBERICHT)

EP	669781	P	19950830 EP AK DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT: (IN EINER ANMELDUNG BENANNTE VERTRAGSSTAATEN)	
			DE GB	
EP	669781	P	19950830 EP A1 PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)	
EP	669781	P		
EP	669781	P		
EP	669781	P	19951102 EP R17P REQUEST FOR EXAMINATION FILED (CORRECTION) (PRUEFUNGSANTRAG GESTELLT (KORR.)) 950223	
EP	669781	P		
EP	669781	P	20030312 EP RAP1 APPLICANT REASSIGNMENT (CORRECTION) (ANMELDER UEBERTRAGUNG (KORR.))	
EP	669781	P	TOZAWA, KATSUTOSHI 20030312 EP RIN1 INVENTOR (CORRECTION) (ERFINDER (KORR.)) TOZAWA, KATSUTOSHI	
EP	669781	P		
EP	669781	P	20030813 EP B1 PATENT SPECIFICATION (PATENTSCHRIFT)	
EP EP	669781 669781	P P	20030813 GB FG4D/REG EUROPEAN PATENT GRANTED 20030918 EP REF . CORRESPONDS TO: (ENTSPRICHT)	
			DE 69233164 P 20030918	
KOREA, REPUBLIC (KR) Patent (No, Kind, Date): KR 187565 B1 19990601 SPEAKER SYSTEM (English) Patent Assignee: TOZAWA KATSUTOSHI (JP) Author (Inventor): TOZAWA KATSUTOSHI (JP) Priority (No, Kind, Date): JP 92237545 A 19920723; WO 92JP1721 W 19921228 Applic (No, Kind, Date): KR 9570137 A 19950113				
IPO Dei	C: * H04R-001	No:	* G 94-049157	
UNITED STATES OF AMERICA (US) Patent (No, Kind, Date): US 6320971 BA 20011120 SPEAKER SYSTEM AND A METHOD FOR IMPROVING SOUND QUALITY THEREOF (English) Patent Assignee: TOZAWA KATSUTOSHI (JP) Author (Inventor): TOZAWA KATSUTOSHI (JP) Priority (No, Kind, Date): JP 92237545 A 19920723 Applic (No, Kind, Date): US 842682 A 19970415				

National Class: * 381386000; 381348000; 381352000; 381353000; 181151000; 181155000; 181198000 IPC: * H04R-001/02; H04R-001/20 Derwent WPI Acc No: * G 94-049157 Language of Document: English UNITED STATES OF AMERICA (US) Legal Status (No, Type, Date, Code, Text): US 95373250 Α 19950207 US REFW CORRESPONDS TO PCT APPLICATION (ENTSPRICHT PCT ANMELDUNG) WO 9403025 P US 97842682 19970415 US REFW CORRESPONDS TO PCT APPLICATION (ENTSPRICHT PCT ANMELDUNG) WO 9403025 P US 6320971 19920723 US AA PRIORITY (PATENT) JP 92237545 A 19920723 US 6320971 19970415 US AE APPLICATION DATA (PATENT) (APPL. DATA (PATENT)) US 842682 · A 19970415 US 6320971 20011120 US BA PATENT (NO PREVIOUS PRE-GRANT PUBLICATION) US 6320971 Р 20040302 US RF REISSUE APPLICATION FILED (REISSUE APPL. FILED) DATE: 20031120 WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO) Patent (No, Kind, Date): WO 9403025 Al 19940203 SPEAKER SYSTEM (English) Patent Assignee: TOZAWA KATSUTOSHI (JP) Author (Inventor): TOZAWA KATSUTOSHI (JP)
Priority (No, Kind, Date): JP 92237545 A 19920723 Applic (No, Kind, Date): WO 92JP1721 A 19921228 Designated States: (National) JP; KR; RU; US (Regint DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE (Regional) AT; BE; CH; Filing Details: WO 100000 With international search report IPC: * H04R-001/02; H04R-001/28; G10K-011/16 Derwent WPI Acc No: ; G 94-049157 Language of Document: Japanese WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO) Legal Status (No, Type, Date, Code, Text): WO 9403025 Ρ 19920723 WO AA PRIORITY (PATENT) JP 92237545 A 19920723 WO 9403025 Ρ 19921228 WO AE APPLICATION DATA (APPL. DATA) WO 92JP1721 A 19921228 WO 9403025 Ρ 19940203 WO AK DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT) JP KR RU US WO 9403025 19940203 WO AL DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT) AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

19940203 WO A1

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WO 9403025

PUBLICATION OF THE

INTERNATIONAL APPLICATION WITH THE

INTERNATIONAL SEARCH REPORT (PUB. OF THE

			. INTERNATIONAL APPL. WITH THE INTERNATIONAL
			SEARCH REPORT)
WO	9403025	P	19940414 WO DFPE REQUEST FOR PRELIMINARY
			EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH
			MONTH FROM PRIORITY DATE
WO	9403025	P	19940511 WO 121 EP: PCT APP. ART. 158 (1)
			(EP: PCT ANM. ART. 158 (1))
WO	9403025	P	19950207 WO ENP ENTRY INTO THE NATIONAL
			PHASE IN:
			US 373250 A 19950207
WO	9403025	P	19970415 WO ENP ENTRY INTO THE NATIONAL
			PHASE IN:
			US 842682 A 19970415